

Larch: Languages and Tools for Formal Specification



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Larch Languages And Tools For Formal Specification

John V. Guttag, James J. Horning



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ZUM '95: The Z Formal Specification Notation Jonathan P. Bowen, 1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users, ZUM 95, held in Limerick, Ireland, in September 1995. The book contains 34 carefully selected papers on Z, including Z applications, Z proof, testing, industrial usage, object orientation.

animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community Specification of Software Systems V.S. Alagar,K. Periyasamy,2013-03-14 This is a textbook on software specification emphasizing formal methods that are relevant to requirements and design stages of software development The aim of the book is to teach the fundamental principles of formal methods in the construction of modular and verifiable formal specifications The book introduces several formal specification techniques and illustrates the expressive power of each technique with a number of examples General Characteristics Traditional textbooks on software engineering discuss the difficulties and challenges that lie on the path from requirements analysis to implementation of a software product Most of these books describe some techniques in detail and give hints on implementation of these techniques Only a few among them deal with important software engineering principles and techniques and discuss how a particular technique may be used to implement a given principle There is very little exposure in these books to a rigorous approach to or a systematic study of the construction of verifiable software Those who have acquired an understanding of the fundamental principles of software engineering from traditional textbooks will find the following characteristics of this book quite relevant to the practice of software engineering The book deals with specification The principal characteristic of this book is to discuss formalisms that provide a theoretical foundation for the principles of software engineering and are appropriate to the requirements and design stages of software development **ZUM ... the Z Formal Specification Notation** ,1995 Encyclopedia of Computer Science and Technology Allen Kent,James G. Williams,2021-05-30 Volume 38 Supplement 23 Algorithms for Designing Multimedia Storage Servers to Models and Architectures Covering more than basic computer commands and procedures this encyclopaedia summarizes how technology has developed the future of computer programs and applications and the significance of computer components Following an introduction and overview there are approximately 750 to 800 entries

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Formal Description Techniques ,1996 *Technology of Object-oriented Languages, TOOLS 24* Jian Chen,1998 This volume covers topics including performance evaluation of objects with roles design of flexible class library management systems assembling software with the reusable components in a library and object oriented technology transfer to multiprocessor system level synthesis *Predictably Dependable Computing Systems* Brian Randell,Jean-Claude Laprie,Hermann Kopetz,Bev Littlewood,2013-11-11 **ACM SIGPLAN Notices** ,2006 **Software Architecture** Mary Shaw,David Garlan,1996 Introduction Architectural styles Case studies Shared information systems Architectural design guidance Formal models and specifications Linguistics issues Tools for architectural design Education of software architects **Proceedings** ,1997 Metrics and quality assurance knowledge and logic based systems object orientated techniques validation and verification distributed and mobile systems software design methodology software process user interaction and testing software are some of the areas examined in this book *Algebraic Methodology and Software Technology* ,2002 *Tools and Algorithms for the Construction and Analysis of Systems* ,1998 ECOOP ... ,2004 *Software Engineering* Ian Sommerville,2001 Discusses a comprehensive spectrum of software engineering techniques and shows how they can be applied in practical software projects Programme examples in C and Ada have been removed from this sixth edition **1998 Asia Pacific Software Engineering Conference** ,1998 Partial Contents Architecture Framework Formal Methods Metrics Software Design Methodology Validation UML Software Development Environment Object Oriented Techniques Distributed User Interface SIGSOFT '95 Gail E. Kaiser,1995 **Proceedings, 11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems** Vaclav Dvorak,Miroslav Sveda,2004

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